



From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II)
OF THE PATENT COOPERATION TREATY:
(PCT Rules 44bis.3c) and 72.2)

To:

KAWAMIYA, Osamu
AOYAMA & PARTNERS
IMP Building
3-7, Shiromi 1-chome
Chuo-ku
Osaka-shi, Osaka 5400001
JAPAN

Date of mailing (day/month/year) 26 October 2006 (26.10.2006)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference 665138	
International application No. PCT/JP2005/005401	International filing date (day/month/year) 24 March 2005 (24.03.2005)
Applicant DAINIPPON SUMITOMO PHARMA CO., LTD. et al	

1. Transmittal of the translation in the applicant.

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).



The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)(PCT Rule 44*bis*)

Applicant's or agent's file reference 665138	FOR FURTHER ACTION		See item 4 below
International application No. PCT/JP2005/005401	International filing date (<i>day/month/year</i>) 24 March 2005 (24.03.2005)	Priority date (<i>day/month/year</i>) 26 March 2004 (26.03.2004)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant DAINIPPON SUMITOMO PHARMA CO., LTD			

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis* 1(a).

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Box No. I | Basis of the report |
| <input type="checkbox"/> Box No. II | Priority |
| <input checked="" type="checkbox"/> Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> Box No. VI | Certain documents cited |
| <input type="checkbox"/> Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> Box No. VIII | Certain observations on the international application |

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis* 3(c) and 93*bis* 1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* 2).

Date of issuance of this report
19 October 2006 (19.10.2006)

Authorized officer

Yoshiko Kuwahara

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. 44) 22 538 82 70

e-mail: pf07@wipo.int

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

TRANSLATION

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis 1)

To:

Date of mailing
(day/month/year)

Applicant's or agent's file reference 665138		FOR FURTHER ACTION	
		See paragraph 2 below	
International application No. PCT/JP2005/005401	International filing date (day/month/year) 24.03.2005	Priority date (day/month/year) 26.03.2004	
International Patent Classification (IPC) or both national classification and IPC			
Applicant DAINIPPON SUMITOMO PHARMA CO., LTD.			

1. This opinion contains indications relating to the following items:

- | | | |
|-------------------------------------|--------------|--|
| <input checked="" type="checkbox"/> | Box No. I | Basis of the opinion |
| <input type="checkbox"/> | Box No. II | Priority |
| <input checked="" type="checkbox"/> | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> | Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> | Box No. V | Reasoned statement under Rule 43bis 1(c)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> | Box No. VI | Certain documents cited |
| <input type="checkbox"/> | Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> | Box No. VIII | Certain observations on the international application |

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the international bureau under Rule 60.1(b)(b) that written opinions of the International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires last.

For further options, see Form PCT/ISA/220

3. For further details, see notes to Form PCT/ISA/220

Name and mailing address of the ISA/IIA	Authorized officer
Facsimile No.	Telephone No.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/005402

Box No. 1 Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ The opinion has been established on the basis of a translation from the original language into the following language: _____, which is the language of a translation furnished for the purposes of international search under Rule 17.3 and 23.1(b).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claim in question, this opinion has been established on the basis of:
- a. type of material
- ☐ a sequence listing
- ☐ tables related to the sequence listing
- b. format of material
- ☐ in written format
- ☐ in computer readable form
- c. time of filing/furnishing
- ☐ contained in the international application as filed.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statement that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/005401

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:

☐ the entire international application

☒ claim Nos. 16, 19, 20

because:

☒ the said international application, or the said claims No.: 16, 19, 20
relate to the following subject matter which does not require an international preliminary examination (specify):

The inventions described in claims 16, 19, and 20 relate to methods for treatment of the human body by therapy.

☐ the description, claims or drawings (indicate particular elements below) of said claims Nos. _____
are so unclear that no meaningful opinion could be formed (specify):

☐ the claims, or said claim No. _____, are so inadequately supported
by the description that no meaningful opinion could be formed

☒ no international search report has been established for said claims Nos. 16, 19, 20

☐ the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:

the written form ☐ has not been furnished
☐ does not comply with the standard

the computer readable form ☐ has not been furnished
☐ does not comply with the standard

☐ the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-Ins of the Administrative Instructions

☐ See Supplemental Box for further details.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCI/JE2005/005403

Box No. V	Reasoned statement under Rule 44bis, in aid of, with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Novelty (N)	Claims	1-15, 17, 18, 21-25	YES
	Claims		NO
Inventive step (IS)	Claims	10	YES
	Claims	1-9, 11-15, 17, 18, 21-25	NO
Industrial applicability (IA)	Claims	1-15, 17, 18, 21-25	YES
	Claims		NO
2. Citations and explanations:			
1. WO 99/28321 A1			
2. WO 02/14449 A2			
I. Claims 1-9, 11-15, 17, 18, and 21-25			
<p>The inventions described in claims 1-9, 11-15, 17, 18, and 21-25 do not appear to involve an inventive step based on documents 1 and 2.</p> <p>Document 1 describes compounds represented by the general formula (I) useful as antiviral drugs, anticancer drugs, immune disease treatment agents, and so on, and production methods thereof.</p> <p>In turn, document 2 describes a purine compound useful as an anti-HIV agent, anticancer drug, and so on, and describes said compound as having a substituent corresponding to the 9-position substituent in formula (I) of the present application in the 9 position (see claim 1; description relating to definitions of L and B in line 1 on page 25 to line 4 on page 26; 9-position substituents in compounds of formulas (I), (V), and (IX), etc.).</p> <p>Consequently, the use of substituents described in document 2 as 9-position substituents in compounds described in document 1 is considered to a matter that could be easily achieved by a person skilled in the art.</p>			
II. Claim 10			
<p>The invention described in claim 10 appears to possess novelty and involve an inventive step over documents 1 and 2.</p> <p>Documents 1 and 2 neither describe nor suggest the compounds in claim 10 of the present application; in addition, from the descriptions of table 30 in example 12 in the present application, said compounds are considered to achieve exceptional effects that could not be anticipated by a person skilled in the art from the descriptions of documents 1 and 2.</p>			